

## SAN JUAN RIVER BASIN

09379560 EL CAPITAN WASH NEAR KAYENTA, AZ

LOCATION.--Lat 36°51'32", long 110°15'55", Navajo County, Hydrologic Unit 14080205, at U.S. Highway 163, 12 mi north of Kayenta.

DRAINAGE AREA.--5.88 mi<sup>2</sup>.

### Annual peak discharges

Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes	Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes
1963	08-30-63	663		1970	10-11-69	390	
1964	07-31-64	181		1971	08-26-71	2,340	
1965	08-02-65	278		1972	00-00-72	1,320	
1966	10-16-65	185		1973	10-19-72	750	
1967	09-00-67	638		1974	07-20-74	145	
1968	00-00-68	1,220		1975	07-07-75	530	
1969	10-04-68	335		1976	00-00-76	301	

Magnitude and probability of instantaneous peak flow based on period of record 1963-76

Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50†	100†
50%	20%	10%	4%	2%	1%
470	952	1,390	2,100	2,760	3,530
Weighted skew	(logs) =	0.14			
Mean	(logs) =	2.68			
Standard dev.	(logs) =	0.36			

† Reliability of values in column is uncertain, and potential errors are large.

### Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
78.4	3.4	5,690	8.0	3.0	9.0	1.2	2.4

